



Triple Vision AI Industrial Camera



IBM-JM1005

Triple Vision AI Industrial Camera – Powered by the Qualcomm® Dragonwing QCS6490 platform and Co-produced by JMO & AIBF, it enables concurrent support for three cameras with multi-modal AI processing capabilities, delivering a total of 12 TOPS of AI processing power in a cost-effective rugged design.

AI industrial cameras are applied to multiple scenarios of industrial quality inspection, and this integrated production line solution ensures accuracy, efficiency and reliability in every inspection task.



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Specification

Computing platform	Qualcomm® Dragonwing QCS6490
Resolution	12MP
Max capture frame rate	@30FPS
Camera	Concurrent support for three cameras with AI processing capabilities
Pixel	1.55um
Lens Interface	C/CS, 12mm focal length, F2.8-F16 aperture
OS	Android or Linux (Yocto)
Memory/storage	8 GB /128 GB
Interface	1*RJ45 Ethernet
	1*USB3.1 TYPE-C
	3*DP (CMA1.2.3)
	1*HDMI
	3* IO input, 3* IO output
	1* GPIO
	1*DC
Volatage	9~36V DC
Main control box size	123.8*109.8*49mm
Operating temperature	-35°C~75°C



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Sample Applications



Textile fabric defect detection Drug packaging testing



Auto parts inspection PCBA solder inspection

Packinglist



Main unit *1

Camera *3

Adapter *1

DP cable *3

Note: The accessories and pictures are for reference only, please refer to the actual product order.

The triple vision AI industrial camera is applied to general industrial inspection, quality control, barcode recognition, intelligent detection, defect identification, classification, and many more AI applications.

Competitive Product Comparison



Picture			
Brand		Advantech	JMO
Model		ICAM-540-30W	IMB-JM1005
Size		79.5mm (W) x 121mm (H) x 62.9 mm(D)	123.8 mm (L) x 109.8mm (W) x 49mm (H)
Design		Integrated AI Industrial Camera /	Discrete three-camera AI Industrial camera Concurrent support for 3 cameras with AI processing capabilities
Image Sensor	Sensor	SONY IMX334, 8MP@30fps	SONY IMX577, 12MP@30fps
	Size, Shutter	1/1.8", Color	1/2.3", Color
Processor system	CPU/GPU	NVIDIA Orin NX CPU: 6-core Cortex A78AE ARM® v8.2 (64-bit) 2x clusters (4x 256KB L2 +2MB L3) + 4MB LLC L3 Cache: 4 MB Max. 2 GHz GPU: 1024 cores 32 Tensor	CPU: QCS6490, 8-core 5G SoC 1 x Gold Plus @ 2.7 GHz + 3 x Gold @ 2.4 GHz + 4 x Silver @ 1.9 GHz GPU: FP1: A642L@315MHz (MH3.0 45-48fps) FP2.5: A642L@550MHz (MH3.0 65-70fps) AI(NSP): 12.15INT8 TOPS
	Memory/ Storage	8 GB 128-bit LPDDR5 / 256GB NVMe	8 GB /128 GB
Optical	Lens	12mm variable focus lens	12mm variable focus lens
	LED illumination	8x PWM white LEDs, programmable	/
I/O	Peripheral	1 x USB 3.0 Type C, 1 x USB 3.0 Type A	1x USB3.1 Type C, 1*RJ45, 3*DP (CMA1,2,3)
	Digital I/O	1x trigger in, 2 x Inputs, 1 x Outputs	3 x Inputs, 3 x Outputs, 1 x GPIO, 1 x DC
	Display	1 x HDMI 2.0	1*HDMI 2.0
LAN		1 x 10/100/1000 Base-T	1 x 10/100/1000 Base-T
OS		Ubuntu 20.04, JetPack 5.1.1 or above	Android/ Linux
Voltage		19~24VDC	9-36VDC
Operation temperature		0°C~45°C	-35°C~75°C
IP rating		IP54	IP66
Cost performance		Suitable for small and medium-sized enterprises	Suitable for small and medium-sized enterprises High flexibility, cost-effective

JMO TECH CO., LTD



JMO's AI camera is powered by Qualcomm's cutting-edge platform, and Co-produced by JMO & AIBF. We provide a complete AI camera solutions and are committed to working closely with our clients to deliver customized hardware and software solutions that enhance efficiency and drive growth.

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